ME311 Homework 6

Problem 7.8

Now consider the steady load, which will give an operating point well outside the infinite life region, and decrease the actual $\sigma_{\text{mean}}$ and $\sigma_{\text{alt}}$ proportionately until the Factor of Safety = 1.5. Give the new stress values.

Also assume:
- All $k$'s = 1

Problem 7.9

Find the diameter to just give infinite life for Problem 7.8 with the new, reduced stresses.